

1Ru



Attorney Docket No. 51898

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Shenai-Khatkhate et al.

U.S.S.N.: 10/816,356

GROUP ART UNIT: 2812

FILED: April 2, 2004

EXAMINER: Not Yet Assigned

FOR: GERMANIUM COMPOUNDS

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on -

5/7/2005

By:


Deanna M. Rivemider

**SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications or other information submitted for consideration by the Examiner are listed on the PTO-1449 form, attached hereto. The documents were not previously cited.

II. COPIES

Submitted herewith is a legible copy of (i) non-patent literature and each foreign patent or English abstract of a foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.

Pursuant to 37 C.F.R. 1.98(a), Applicant is not required to furnish copies of the cited U.S. patents or patent application publications for all U.S. national patent applications filed after June 30, 2003.

III. CONCISE EXPLANATION OF THE RELEVANCE

All of the patents, publications or other information are in the English language or were cited in an English language Search Report, a copy of which is attached hereto (concise explanation not required).

FEES

IV. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(b)
(check one box)

- a. ☐ within three months of the filing date of a national application (37 C.F.R. § 1.97(b) (1)). No fee or certification is required.
- b. ☐ within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b) (2)). No fee or certification is required.
- c. ☒ before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b) (3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below, or, if no certification has been made, charge our deposit account a fee in the amount of \$240.00 as required by 37 C.F.R. § 1.17(p).

V. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(c):
(check one box)

before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c) (1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c) (2)).

- a. ☐ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
or
- b. ☐ See the certification below. No fee is required.

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e) (check only one box)

The undersigned hereby certifies that

- a. ☐ each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or
- b. ☐ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

c. ☐ Some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned certifies that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

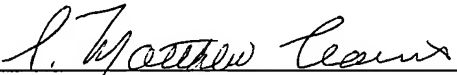
☐ Enclosed please find a check in the amount of \$_____ for the above indicated fee.

☐ Please charge Deposit Account No. 04-1105 in the amount of \$180.00 for the above-indicated fee. A triplicate copy of this paper is attached.


☒ No fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition, if necessary) and charge the appropriate fee to Deposit Account No. 04-1105.

Respectfully submitted,



S. Matthew Cairns (Reg. No. 42,378)
EDWARDS & ANGELL, LLP
P.O. Box 55874
Boston, MA 02205
(508) 229-7545

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY DOCKET NO. 51898		SERIAL NO. 10/816,356	
				APPLICANT(S): Shenai-Khatkhate et al.			
				FILING DATE: 04/02/2004		ART UNIT: 2812	
UNITED STATES PATENT DOCUMENTS							
EXAM. INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILE DATE
	AA	3,935,040	01/27/1976	Mason			
	AB	3,985,590	10/12/1976	Mason			
	AC	4,720,561	01/19/1988	Bradley et al.			
	AD	4,812,586	03/14/1989	Mullin et al.			
	AE	5,316,958	05/31/1994	Meyerson			
	AF	5,489,550	02/06/1996	Moslehi			
	AG	2003/0230233 A1	12/18/2003	Fitzgerald et al.			
	AH	2004/0259333 A1	12/23/2004	Tomasini et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN YES/NO
	BA	0 368 651 B1	09/07/1994	Europe			
	BB	1 386 900	03/12/1975	United Kingdom			
	BC	WO 2004/011473 A1	02/05/2004	International			
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
	CA	Dillon et al.; "Comparison of Trichlorosilane and Trichlorogermane Decomposition on Silicon Surfaces Using FTIR Spectroscopy"; Mat. Res. Soc. Symp. Proc. Vol. 282; 1993; pp. 405-411.					
	CB	Dillon et al.; "Adsorption and Decomposition of Diethylgermane on porous silicon surfaces"; Surface Science Letters 286 (1993); pp. L535-L541.					
	CC	Todd et al.; "Chemical Synthesis of Metastable Germanium-Carbon Alloys Grown Heteroepitaxially on (100) Si; Chem. Mater. 1996, 8, pp. 2491-2498.					
	CD	Coon et al.; "Germanium Deposition on Silicon: Surface Chemistry of (CH ₃ CH ₂) ₂ GeH ₂ and GeCl ₄ "; Mat. Res. Soc. Symp. Proc. Vol. 282; 1993; pp. 413-419.					
	CE	Kouvetakis et al.; "Novel Chemical Routes to Silicon-Germanium-Carbon Materials"; Appl. Phys. Lett. 65 (23); 5 December 1994; pp. 2960-2962.					
	CF	Dillon et al.; "Adsorption and Decomposition of Trichlorosilane and Trichlorogermane on Porous Silicon and Si(100)2x1 Surfaces"; J. Vac. Sci. Technol. A 13(1); Jan/Feb 1995; pp. 1-10.					
Examiner:				Date:			